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acquiring magnetic resonance signals,  
determining the position of a measuring site, and  
reconstructing the magnetic resonance image from the  
magnetic resonance signals and on the basis of the position of  
the measuring site.

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2. (Amended) A method of forming a magnetic resonance image  
as claimed in Claim 1 further comprising the steps of:

reproducing a detail and an indication of the measuring  
site, and

correcting the position of the detail in the magnetic  
resonance image on the basis of the position of the indication of  
the measuring site in the magnetic resonance image.

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3. (Amended) A method of forming a magnetic resonance image  
as claimed in Claim 1 further comprising the steps of:

acquiring a set of measuring magnetic resonance signals at a  
reference temperature,

5 acquiring a set of measuring magnetic resonance signals  
after the temperature has been changed, notably increased, at the  
area of the measuring site,

deriving a reference magnetic resonance image from the  
reference magnetic resonance signals,

10 deriving a measuring magnetic resonance image from the  
measuring magnetic resonance signals, and

making the measuring magnetic resonance image and the  
reference magnetic resonance image to register on the basis of  
the position determined for the measuring site.

15 4. (Amended) A method of forming a magnetic resonance image  
as claimed in Claim 3 further comprising the step of:

on the basis of the position determined for the measuring  
site, acquiring the reference magnetic resonance signals and the  
measuring magnetic resonance signals from essentially the same  
region.

5 5. (Amended) A method of forming a magnetic resonance image  
as claimed in Claim 3 further comprising the steps of:

reproducing a detail and an indication of the measuring site  
in the reference magnetic resonance image,

5 reproducing the same detail and the indication of the  
measuring site in the measuring magnetic resonance image, and  
wherein

a shift of the detail is derived from respective positions  
of the detail relative to the indication of the measuring site in  
10 the reference magnetic resonance image and the measuring magnetic  
resonance image, correcting the position of the detail in the

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measuring magnetic resonance image on the basis of the derived  
shift of the detail.

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6. (Amended) A method of forming a magnetic resonance image  
of a region to be imaged comprising the steps of:

acquiring magnetic resonance signals,

measuring the position of a measuring site, and

5 deriving the temperature at the measuring site from the  
magnetic resonance signals.

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7. (Amended) A method of forming a magnetic resonance image  
as claimed in Claim 6 further comprising the steps of:

acquiring a set of reference magnetic resonance signals at a  
reference temperature,

5 changing the temperature at the area of the measuring site  
relative to the reference temperature, the temperature notably  
being increased at the area of the measuring site,

subsequently acquiring a set of measuring magnetic resonance  
signals, and

10 deriving a temperature distribution from the reference  
magnetic resonance signals, the position of the measuring site  
and the measuring magnetic resonance signals.

8. (Amended) A method of forming a magnetic resonance image as claimed in Claim 7 further comprising the step of:

deriving a thermal image from the measuring magnetic resonance signals, the reference magnetic resonance signals and the position of the measuring site, said thermal image reproducing the temperature distribution.

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5 9. (Amended) A method as claimed in Claim 1 wherein a microcoil is used to acquire position magnetic resonance signals at the area of the microcoil, and the position of the measuring site is derived from the position magnetic resonance signals.

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10. (Amended) A magnetic resonance imaging system for forming a magnetic resonance image of a region to be imaged comprising:

a coil system for acquiring magnetic resonance signals and for determining the position of a measuring site, and

a reconstruction unit for the reconstruction of the magnetic resonance image from the magnetic resonance imaging signals and the position determined for the measuring site.

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11. (Amended) A magnetic resonance imaging system as claimed in Claim 10 further comprising:

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C1 5 a microcoil for the acquisition of position magnetic  
resonance signals at the area of the microcoil, and wherein  
the reconstruction unit is arranged to derive the magnetic  
resonance image from the magnetic resonance signals and on the  
basis of the position magnetic resonance signals.

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12. (Amended) A computer program which forms a magnetic  
resonance image of a region to be imaged containing instructions  
for:

5 the acquisition of magnetic resonance signals, and  
the determination of the position of a measuring site, and  
the reconstruction of a magnetic resonance image from the  
magnetic resonance imaging signals and the position determined  
for the measuring site.

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Please add new claims 13-17 as follows:

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Contd 5 --13. (New) A method as claimed in Claim 6 wherein  
a microcoil is used to acquire position magnetic resonance  
signals at the area of the microcoil, and  
the position of the measuring site is derived from the  
position magnetic resonance signals.

14. (New) A method of forming a magnetic resonance image as claimed in Claim 1 further comprising the step of:

determining a geometrical relationship between the measuring site and the region to be imaged, and wherein the reconstruction  
5 of the magnetic resonance image occurs based on the geometrical relationship.

15. (New) A method of forming a magnetic resonance image as claimed in Claim 6 further comprising the step of:

*98 Cont'd*  
determining a geometrical relationship between the measuring site and the region to be imaged, and wherein the reconstruction  
5 of the magnetic resonance image occurs based on the geometrical relationship.

16. (New) A method of forming a magnetic resonance image as claimed in Claim 10 further comprising the step of:

determining a geometrical relationship between the measuring site and the region to be imaged, and wherein the reconstruction  
5 of the magnetic resonance image occurs based on the geometrical relationship.

17. (New) A method of forming a magnetic resonance image as claimed in Claim 12 further comprising the step of:

determining a geometrical relationship between the measuring site and the region to be imaged, and wherein the reconstruction  
5 of the magnetic resonance image occurs based on the geometrical relationship.--

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